## DATASHEET - FAZ-Z16/2



N	Ainiature circui	it breaker (MCB),	16 A, 2p, characteristic: Z	FAT•N
E	'art no. L Number Norway)	FAZ-Z16/2 278825 1695270		Powering Business Worldwid
General specifications				
Product name			Eaton Moeller se	eries xEffect - FAZ MCB
Part no.			FAZ-Z16/2	
EAN			4015082788254	
Product Length/Depth			80 millimetre	
Product height			75.5 millimetre	
Product width			36 millimetre	
Product weight			0.222 kilogram	
Compliances			UL CSA09 (with s RoHS conform	supplementary protector only)
Certifications			CSA (File No. 204	451) 1215-30) JL recognized, CSA certified)
Product Tradename			xEffect - FAZ	
Product Type			МСВ	
Product Sub Type			None	
Delivery program				
Application			not as BCPD ndustrial and advanced commercial applications gear for industrial and advanced commercial applications	
Number of poles			Two-pole	
Number of poles (total)			2	
Number of poles (protected)			2	
Tripping characteristic			Z	
Release characteristic			Z	
Amperage Rating			16 A	
Туре			FAZ Miniature circuit	breaker
Technical Data - Electrical				
Voltage type			AC	
Voltage rating			240 V AC / 415 V	AC
Voltage rating at DC			60 V DC (per pole	a)
Voltage rating (UL CSA 13)			480 Y/277 V AC; 9	96 V DC
Rated operational voltage (Ue) - r	nax		400 V	
Rated insulation voltage (Ui)			440 V	
Rated impulse withstand voltage	(Uimp)		4 kV	
Frequency rating - min			50 Hz	
Frequency rating - max			60 Hz	
Rated switching capacity (IEC/EN	l 60947-2)		10 kA	
Operational switching capacity			7.5 kA	
Rated short-circuit breaking capa	acity (EN 60898) at 230	٧V	0 kA	
Rated short-circuit breaking capa	acity (EN 60898) at 400	٧V	0 kA	
Rated short-circuit breaking capa	acity (IEC 60947-2) at 2	230 V	10 kA	
Rated short-circuit breaking capa	acity (IEC 60947-2) at 4	100 V	10 kA	

Admissible back-up fuse - max

125 A gL/gG

Selectivity class	3
Lifespan, electrical	10000 operations
Overvoltage category	
Pollution degree	2
Direction of incoming supply	As required
Technical Data - Mechanical	
Frame	45 mm
Enclosure width	80 mm
Width in number of modular spacings	2
Built-in depth	70.5 mm
Mounting width per pole	17.5 mm
Mounting width	17.5 mm
Mounting Method	Top-hat rail IEC/EN 60715
Mounting position	As required
Degree of protection	IP20 UL/CSA Type: - IP40 (when fitted) IP20 (IEC)
Terminals (top and bottom)	Twin-purpose terminals
Connectable conductor cross section (solid-core) - min	1 mm <sup>2</sup>
Connectable conductor cross section (solid-core) - max	25 mm <sup>2</sup>
Connectable conductor cross section (multi-wired) - min	1 mm <sup>2</sup>
Connectable conductor cross section (multi-wired) - max	25 mm <sup>2</sup>
Terminal capacity of screw terminals for main cable	10 mm <sup>2</sup> (2x)
Terminal capacity (control cable)	25 mm <sup>2</sup> (1x)
Terminal protection	Finger and hand touch safe, DGUV VS3, EN 50274
Busbar material thickness	0.8 mm - 2 mm
Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	16 A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	7.1 W
Static heat dissipation, non-current-dependent	0 W
Heat dissipation capacity	0 W
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	75 °C
Design verification as per IEC/EN 61439	
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of assemblies	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
	Is the panel builder's responsibility. The specifications for the switchgear must be

10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
Additional information	
Current limiting class	3
Features	Additional equipment possible
Special features	Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity
Used with	FAZ Miniature circuit breaker

## **Technical data ETIM 9.0**

Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042) Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss13-27-14-19-01 [AAB905019]) Built-in depth mm 70.5 Release characteristic Ζ Number of poles (total) 2 Number of protected poles 2 Rated current 16 А v Rated voltage 400 440 Rated insulation voltage Ui v Rated impulse withstand voltage Uimp kV 4 Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V kΑ 0 Voltage type AC Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V kΑ 0 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V kA 10 Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V kA 10 Frequency Hz 50 - 60 w Power loss 7.1 Current limiting class 3 Flush-mounted installation No Concurrently switching neutral conductor No Over voltage category 3 Pollution degree 2 Additional equipment possible Yes Width in number of modular spacings 2 Degree of protection (IP) IP20 Ambient temperature during operating °C -25 - 75 Connectable conductor cross section multi-wired mm² 1 - 25 Connectable conductor cross section solid-core mm² 1 - 25 Explosion-proof No